AMSAT Weekly Satellite Report
Issue: WSR-046
Date: 2004-02-15
Sources: amsat-ans-2004-ans-046.txt

ANS-046 WEEKLY SATELLITE REPORT

This report is organized into 2 parts.
Part 1 - operational analog amateur satellites.
Part 2 - operational digital amateur satellites.

SB SAT @ AMSAT $ANS-046.S1
WEEKLY SATELLITE REPORT PART 1

AMSAT NEWS SERVICE BULLETIN 046.S1 FROM AMSAT HQ
SILVER SPRING, MD, February 15,2004
TO ALL RADIO AMATEURS
BID: $ANS-046.S1

ARISS - INTERNATIONAL SPACE STATION
Catalog number: 25544
Launch date: November 20, 1998

Worldwide packet uplink: 145.990 MHz FM
Region 1 voice uplink: 145.200 MHz FM
Region 2/3 voice uplink: 144.490 MHz FM
Worldwide downlink: 145.800 MHz FM

Sponsors: AMSAT, ARRL, ARISS

Status: Operational since September, 2000. Digipeater: Active

The current Expedition 8 crew is:
Commnader Mike Foale, KB5UAC
Flight Engineer Alexander Kaleri, U8MIR

The ISS daily crew schedule can be found at:
http://spaceflight.nasa.gov/station/timelines/
Remember that the crew operates on UTC time. Also, all of the time line
is NOT translated from Russian and posted.

U.S. callsign: NA1SS
Russian callsigns: RS0ISS, RZ3DZR
TNC callsign: RS0ISS-1

Sil, ZL2CIA, reports to ANS:
Those of you who like to run Sgates will be pleased to know that the ISS
digi
is active again and handling APRS traffic.
I successfully passed a number of packets via the station this evening.
(see
below).
Ironically, it has probably never been turned off - it just looked that
way.
The problem is simply that the Rx on the ISS has been tuned to a
different
frequency than that listed.
The current configuration is

Downlink 145.800 MHz (with Dopler)
Uplink 145.825 MHx (with Doppler)
Digi Callsign is RS0ISS-3

Please send any confirmations to ans-editor@amsat.org.

More information is available at: http://ariss.gsfc.nasa.gov/ or
http://www.rac.ca/ariss or
http://www.marexmg.org/fileshtml/unprotopage.html
or http://www.issfanclub.com

[ANS wishes to thank Bill, VE7WFG and the ARRL Letter][02152004]
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AO-7 AMSAT OSCAR 7
Catalog number: 07530
Launch Date: November 15, 1974
Return to active status: June 21,2002

Uplink: 145.850 to 145.950 MHz CW/USB Mode A
432.125 to 432.175 MHz CW/LSB Mode B
Downlink: 29.400 to 29.500 MHz CW/USB Mode A
145.975 to 145.925 MHz CW/USB Mode B
Beacon: 29.502 MHz, 145.972 MHz, 435.1 MHz, 2304.1 MHz

Status: Semi-operational in sunlight.

Emily, W0EEC has created a website to allow the users of AO-7 to record
contacts, observations and use of the satellite more effectively at
http://www.experthams.net/ao7
This includes the ability to log contacts.

Tim, K3TZ has written a program to decode AO-07 telemetry. The program
can
be downloaded at:
http://www.qsl.net/k3tz/files/K3TZ_AO-07_Telemetry_Decoder_0.5.zip

For more AO-7 info: http://www.amsat.org/amsat/sats/n7hpr/ao7.html
=====
RS-15 RADIO SPORT RS-15
Catalog number: 23439
Launch Date: December 26, 1994

Uplink: 145.858 to 145.898 MHz CW/USB
Downlink: 29.354 to 29.394 MHz CW/USB
Beacon: 29.352 MHz (intermittent)
SSB meeting frequency: 29.380 MHz (unofficial)

Status: Semi-operational, mode-A, using a 2-meter uplink and a 10-meter
downlink.
=====
FO-20 JAS-1b
Catalog number: 20480
Launch Date: February 07, 1990
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795

Status: Semi-Operational. FO-20 is in mode JA continuously.
=====
AO-27 AMRAD
Catalog number: 22825
Launched: September 26, 1993

Uplink: 145.850 MHz FM
Downlink: 436.795 MHz FM

Status: Operational

Off the AO-27 webpage at http://www.ao27.org:
February 6th, 2004 UTC
The on-board watchdogs have turned the scheduler off. This was expected as the
last few days of telemetry have shown lower battery voltages. We will be downloading the Whole Orbit Data and looking at why the voltage is lower. I
will send a new schedule up as soon as we know what happened. Keep in mind
that AO-27 is in its 11th year on orbit. If you hear the telemetry, please
don't try to uplink, you will only cause interference to the command stations

The latest information on AO-27 from control operator Michael Wyrick, N3UC (former N4USI), can be found at: http://www.ao27.org

An AO-27 question-and-answer page is available on the AMSAT-NA web site, with updates by Ray, W2RS. The URL is:
http://www.amsat.org/amsat/intro/ao27faq.html

[ANS thanks Micheal, N3UC and AMRAD for AO-27 information] [02082004]
=====
FO-29 JAS-2
Catalog number: 24278
Launch Date: August 17, 1996

Voice/CW Mode JA
Uplink: 145.90 to 146.00 MHz CW/LSB
Downlink: 435.80 to 435.90 MHz CW/USB
Beacon: 435.795 MHz

Digital Mode JD
Uplink: 145.850 145.870 145.910 MHz FM
Downlink: 435.910 MHz 1200-baud BPSK or 9600-baud FSK
Callsign: 8J1JCS
Digitalker: 435.910 MHz

Status: Operational Mode JA.

Mineo, JE9PEL, has an FO-29 satellite telemetry analysis program that will automatically analyze all digital telemetry from the satellite (such as current, voltage and temperature). FO29CWTE is available at:
http://www.ne.jp/asahi/hamradio/je9pel/
=====
SO-41 SAUDISAT-1A
Catalog number: 26545
Launch Date: September 26, 2000

Uplink: 145.850 MHz
Downlink: 436.775 MHz
Broadcast Callsign: SASAT1-11
BBS: SASAT1-12

Status: Operational

Further information is available at:
http://www.amsat.org/amsat/sats/n7hpr/so41.html
=====
SO-50 SAUDISAT-1C
Catalog number: 27607
Launched: December 20, 2002

Uplink: 145.850 MHz (67.0 Hz PL tone)

Downlink: 436.795 MHz

Status: Operational.

SO-50 carries several experiments, including a mode J FM amateur repeater
experiment operating on 145.850 MHz uplink and 436.800 MHz downlink.
The repeater is available to amateurs worldwide as power permits, using a
67.0 Hertz tone on the uplink, for on-demand activation.

[ANS thanks Turki Al-Saud for this information]
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SB SAT @ AMSAT $ANS-046.S2
WEEKLY SATELLITE REPORT PART 2

AMSAT NEWS SERVICE BULLETIN 046.S2 FROM AMSAT HQ
SILVER SPRING, MD, February 15,2004,
TO ALL RADIO AMATEURS
BID: $ANS-046.S2

UO-11 OSCAR-11
Catalog number: 14781
Launched: March 1, 1984

Downlink: 145.826 MHz FM (1200-baud AFSK)
Mode-S Beacon: 2401.500 MHz

Status: Semi-operational.
=====
AO-16 PACSAT
Catalog number: 20439
Launch Date: January 22, 1990

Uplink: 145.90 145.92 145.94 145.96 MHz FM
                     (using 1200-baud Manchester FSK)
Downlink: 437.026 MHz SSB (1200-baud PSK)
Mode-S Beacon: 2401.1428 MHz
Broadcast Callsign: PACSAT-11
BBS: PACSAT-12

Status: Semi-operational, the digipeater command is on and open for
APRS users.

A WOD collection of current graphics along with general information
and telemetry samples can be found at:
http://www.telecable.es/personales/ea1bcu

[ANS thanks Miguel Menendez, EA1BCU, for AO-16 status information]
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UO-22 UOSAT
Catalog number: 21575
Launched: July 17, 1991

Uplink: 145.900 FM 9600-baud FSK
Downlink: 435.120 MHz FM
Broadcast Callsign: UOSAT5-11
BBS: UOSAT5-12

Status: Operational.

More information on the satellite is available at the following URL:
http://www.sstl.co.uk/
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IO-26 ITAMSAT
Catalog number: 22826
Launch Date: September 26, 1993

Uplink: 145.875 145.900 145.925 145.950 MHz FM (1200-baud)
Downlink: 435.812 MHz SSB
Broadcast Callsign: ITMSAT-11
BBS: ITMSAT-12

Status: No uplinks currently

This from Alberto E. Zagni - I2KBD on November 26,2003:

I can confirm that IO-26 is still in Safe Mode (MBL telemetry).
We have some problems to uplink the full IHT software, probably
due to an unfavourable attitude of the spacecraft.
Until the IHT (high level code) is reloaded, NO digipeat will
be possible, since it is part of the IHT multitasking code.

All the best
Alberto E. Zagni - I2KBD

[ANS thanks for Alberto E. Zagni, I2KBD and Don Woodward, KD4APP this
information]

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NO-44 PCSAT
Catalog number: 26931
Launch Date: September 30, 2001

Uplink/downlink: 145.827 MHz 1200 baud AX.25 AFSK via W3ADO-1
Aux/Uplink: 435.250 MHz 9600 baud via PCSAT-2 (off)
APRS Downlink: 144.390 MHz (Region 2)

Status: Semi-Operational.

PCSat is a 1200-baud APRS digipeater designed for use by stations using
hand-held or mobile transceivers. Downlinks feed a central web site at
http://pcsat.aprs.org

The APRS-equipped PCSat was built by midshipmen from the U.S. Naval
Academy
under the guidance of Bob Bruninga, WB4APR.

For more information, visit the PCSat web site at:
http://web.usna.navy.mil/~bruninga/pcsat.html

[ANS thanks Bob Bruninga, WB4APR, for PCSat information][02082004]
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NO-45 SAPPHIRE
Catalog number: 26932
Launch Date: September 30, 2001

Downlink: 437.095 MHz 1200 baud AX-25 AFSK
Uplink: 145.945 MHz UI Digipeater
Digi Callsign: KE6QMD

Status: Operational.

Student built Sapphire was launched through the U.S. Naval
Academy Satellite program. Its primary missions are sensor
experiments, a camera, and voice synthesizer. For more information,
visit the Sapphire web site at:
http://students.cec.wustl.edu/~sapphire/sapphire_overview.html

[ANS thanks Bob Bruninga, WB4APR, for Sapphire information][02082004]
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MO-46 TIUNGSAT-1
Catalog number: 26548
Launched: September 26, 2000

Uplink: 145.850 or 145.925 MHz 9600-baud FSK
Downlink: 437.325 MHz
Broadcast callsign: MYSAT3-11
BBS: MYSAT3-12

Status: Operational at 38k4-baud FSK.

TiungSat-1 is Malaysia's first micro-satellite and in addition to commercial land and weather imaging payloads offers FM and FSK Amateur Radio communication.

TiungSat-1, named after the mynah bird of Malaysia, was developed as a collaborative effort between the Malaysian government and Surrey Satellite Technology Ltd.

[ANS thanks Chris Jackson, G7UPN/ZL2TPO, for this information]
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ANS is released worldwide via the AMSAT ANS e-mail reflector and a live radiocast on the AMSAT-NA 20-meter net held each Sunday on 14.282 MHz. Pre-net operations start at 18:00 UTC, with current ANS bulletins transmitted to the eastern U.S. at 19:00 UTC and to the western U.S. at 19:30 UTC.

Information on AMSAT-NA is available at the following URL:
http://www.amsat.org

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Currently, AMSAT-NA supports the following (free) mailing lists:

* AMSAT News Service (ANS)
* General satellite discussion (AMSAT-BB)
* Orbit data (KEPS)
* Manned space missions (SAREX)
* District of Columbia area (AMSAT-DC)
* New England area (AMSAT-NE)
* AMSAT Educational Liaison mailing list (AMSAT-EDU)
* AMSAT K-12 Educational Liaison mailing list (AMSAT-K12)

A daily digest version is available for each list.

To subscribe, or for more list information, visit the following URL:
http://www.amsat.org/amsat/listserv/menu.html

In addition to regular membership, AMSAT-NA offers membership in the President's Club. Members of the President's Club, as sustaining donors to AMSAT Project Funds, will be eligible to receive additional benefits. Application forms are available from the AMSAT-NA Office.

This weeks Weekly Satelite Report Editor is James French, W8ISS at
w8iss@wideopenwest.com

ANS is always dedicated to past ANS editor 'BJ' Arts, WT0N, and to the
memory of longtime AMSAT supporters Werner Haas, DJ5KQ, Dennis Kitchen,
G0FCL and John Branegan GM4IHJ.

Please send any amateur satellite news or reports to:
ans-editor@amsat.org
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